

Notice of Allowability	Application No.	Applicant(s)	
	10/659,414	BLACKMON ET AL.	
	Examiner	Art Unit	
	Ling-Siu Choi	1713	

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 06/01/2005.
2. The allowed claim(s) is/are 2,3,5,6 and 13.
3. The drawings filed on 10 September 2003 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date 5.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

DETAILED ACTION

1. This Office Action is in response to the Amendment filed June 1, 2005. Claims 1, 4, and 7-12 were canceled and claims 13 and 14 have been added. Claims 2-3, 5-6, and 13-14 are now pending.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms Tenley R. Krueger on June 16, 2005.

3. The application has been amended as follows:

Cancel claim 14;

Claim 5, line 12, change "about 0.5 to about 20" to --greater than 50 to about 500--;

Claim 13, line 7, change "about 0.5 to about 20" to --greater than 50 to about 500--.

Allowable Subject Matter

Art Unit: 1713

4. Claims 2-3, 5-6, and 13 are allowed.

5. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest references: Shamshoum et al. (US 5,891,817).

A catalyst system for polymerization of olefins, comprising	
A	a Ziegler-Natta catalyst
B	an organoaluminum compound cocatalyst
C	at least one external electron donor comprising n-butylmethyldimethoxysilane (BMDS)
wherein the catalyst system comprises an Al/Si molar ratio of greater than 50 to about 500	

(summary of claim 13)

Shamshoum et al. disclose a catalyst system comprising (A) a solid catalyst component obtained by the contact of dialkoxymagnesium , a titanium halide, and a diester of an aromatic dicarboxylic acid, (B) an organoaluminum, and (C) an external electron donor in the general formula of $R_1R_4Si(OR_3)(OR_2)$ (col. 3, lines 6-7; claim 1), the organoaluminum compound being triethylaluminum (TEAL) (col. 2, lines 8-16; claims 9-10) and the external electron donor being preferably di-n-propyldimethoxy silane (DPDS), di-n-butidimethoxysilane (DBDS), or **n-butylmethyldimethoxysilane (BMDS)"** (col. 3, lines 10-12; claim 7), wherein the **molar ratio of Al/Si** is shown to be **1, 2, 5, 10 or 20** [Examples 15-21 (Table 2)]. Shamshoum et al. further disclose that the catalyst component comprises a compound of MR_x^+ " (col. 4, lines 54-

63). However, Shamshoum et al. do not teach or fairly suggest a catalyst system comprising n-butylmethyl dimethoxysilane (BMDS) as an external donor in the molar ratio of greater than 50 to about 500.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.

Ling-Siu Choi
LING-SIU CHOI
PRIMARY EXAMINER

August 26, 2005